CIVIL QUALITY CONSULTANTS & ENGINEERS

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JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/CR/17/2021-2022 Date:14.04.2021

TEST REPORT ON CEMENT

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore

Sample : :Cement (Birla Super 53 grade OPC)
Sample Supplied by: :AGENCY
Date of Manufacture: :March-2021
Date of Testing 12.04.2021 to 14.04.2021

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269:2015
1	a) Initial Setting Time	IS-4031 (Part - 5):1988(RA 2014)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part - 5):1988(RA 2014)	365 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) :1988 (RA 2014) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00%	-

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016 Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	81	8.10	8.10	91.9	90-100
2.36	114	11.40	19.50	80.5	75-100
1.18	170	17.00	36.50	63.5	55-90
600 Micron	225	22.50	59.00	41.0	35-59
300 Micron	179	17.90	76.90	23.1	8-30
150 Micron	155	15.50	92.40	7.6	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 40mm Aggregates

Total Wt. of Aggregates in gms 15000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
80	0	0	0	100	100
40	212	1.41	1.41	98.59	95-100
20	8563	57.09	58.50	41.50	30-70
10	3201	21.34	79.84	20.16	10-35
4.75	2685	17.90	97.74	2.26	0-5

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date 14.04.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing 14.04.2021
IS Code :IS 383:2016
:IS 2386 (Part 1):1963(RA 2011)
Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Requirements as per IS 383:2016
40	0	0	0	100	100
20	204	4.1	4.1	95.9	95-100
10	2825	56.5	60.6	39.4	25-55
4.75	1832	36.6	97.2	2.8	0-10

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Masonry Sand

Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	15	1.50	1.50	98.5	90-100
1.18	30	3.00	4.50	95.5	70-100
600 Micron	83	8.30	12.80	87.2	40-100
300 Micron	255	25.50	38.30	61.7	5-70
150 Micron	471	47.10	85.40	14.6	0-15

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date : 14.04.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 1542-1992

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing : 14.04.2021
Material : Plastering Sand Total wt. of aggregates in gms = **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 1542-1992
10	0	0	0	100	100
4.75	25	2.50	2.50	97.5	95-100
2.36	20	2.00	4.50	95.5	95-100
1.18	33	3.30	7.80	92.2	90-100
600 Micron	72	7.20	15.00	85.0	80-100
300 Micron	241	24.10	39.10	60.9	20-65
150 Micron	512	51.20	90.30	9.7	0-15

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 14.04.2021

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	**: Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Contractor	:	**: Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of Work	:	Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
No.of Sample Tested	:	03
Date of Testing	:	14.04.2021
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	80.00	0.367	2336.39	1.60	0.957	35.20	17.93	19.36	18.52	23.16
2	50.00	80.00	0.361	2298.20	1.60	0.957	33.70	17.16	18.54	17.74	22.17
3	50.00	80.00	0.358	2279.10	1.60	0.957	32.10	16.35	17.66	16.89	21.12

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Job No.: CQCE/BBMP/CR/17/2021-2022 Date : 14.04.2021

TEST REPORT ON SOLID CONCRETE BLOCKS

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the Work Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP, Bangalore
Date of Testing : 14.04.2021
Size of Blocks : 400mm x 200mm x 200mm
Cross Sectional Area : 80000 mm^2
Technical Reference : IS: 2185 (Part 1) - 2005
No. of Blocks Tested : 04

Sl.No.	Block ID	Wt. in Kg	Failure load (KN)	Compressive strength (N/mm^2)	Block Density in Kg/M^3	Requirement as per IS 2185 (Part 1) - 2005
1	Block 1	31.5	326.6	4.08	1968.75	Minimum required Compressive Strength of Individual Units $3.5N/mm^2$
2	Block 2	31.9	301.1	3.76	1993.75	
3	Block 3	32.2	318.1	3.98	2012.50	
4	Block 4	32.8	299.9	3.75	2050.00	

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Job No.: CQCE/BBMP/CR/17/2021-2022

Date: 03.05.2021

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.022	263.3	11.70
2	26.04.2021	03.05.2021	8.096	250.1	11.12
3	26.04.2021	03.05.2021	8.032	249.9	11.11

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Job No.: CQCE/BBMP/CR/17/2021-2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 03.05.2021

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	03.05.2021	8.166	249.9	11.11
2	26.04.2021	03.05.2021	8.096	260.2	11.56
3	26.04.2021	03.05.2021	8.021	251.0	11.16

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Job No: CQCE/BBMP/CR/17/2021-2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 22.05.2021

Client	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Name of the work	Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	22.05.2021	8.155	362.2	16.10
2	26.04.2021	22.05.2021	8.063	349.9	15.55
3	26.04.2021	22.05.2021	8.096	358.1	15.92

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Date: 22.05.2021

Client	
Agency	: **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Name of the work	: **Sri. T Chandrashekhar Reddy,** Contractor, Bangalore.
Sample ID	Providing Asphalt works at Selected reaches in ward no 17 Phase-03, BBMP.
Size of cubes	: Cement Concrete
Cross Sectional Area	: 150mmx150mmx150mm
Technical Reference	: 22500 mm^2
Grade of Concrete	: IS: 516-1959 (Reaffirmed 2008)
Compressive Strength as on	: M_{15}
	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.04.2021	22.05.2021	8.155	386.6	17.18
2	26.04.2021	22.05.2021	8.096	372.2	16.54
3	26.04.2021	22.05.2021	8.085	389.1	17.29

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

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